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L8: Entry 10 of 11

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Feb 16, 1980

DERWENT-ACC-NO: 1980-22814C

DERWENT-WEEK: 198013

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TITLE: Cathode for non-aq. electrolyte lithium-copper oxide battery - prep'd. by compacting and sintering mixt. of pyrolysed copper salt, copper oxide and carbon

PATENT-ASSIGNEE:

ASSIGNEE	CODE
SANYO ELECTRIC CO	SAOL

PRIORITY-DATA: 1978JP-0095305 (August 1, 1978)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 55021879 A	February 16, 1980		000	
JP 86055739 B	November 28, 1986		000	

INT-CL (IPC): H01M 4/08

ABSTRACTED-PUB-NO: JP 55021879A

BASIC-ABSTRACT:

Copper salt, e.g. copper nitrate, hydroxide or carbonate and copper oxide are mixed and heated to pyrolyse the salt into copper oxide. Carbon is added to the mixt. which is then compacted and sintered to form a cathode. The cathode is used in a lithium-copper oxide battery. The copper oxide serves as active material.

In an example, copper hydroxide powder and copper oxide powder are mixed and heated at 800 degrees C in an inert gas atmos. for 10-20 mins. to thermally decompose the copper hydroxide into copper oxide. 90 wt.% of the mixt. contg. the thermally decomposed products, 6 wt.% of acetylene black and 4 wt.% of PTFE powder are mixed and compacted into a plate. The plate is heated at 300 degrees C to make a cathode contg. high-activity copper oxide.

TITLE-TERMS: CATHODE NON AQUEOUS ELECTROLYTIC LITHIUM COPPER OXIDE BATTERY PREPARATION COMPACT SINTER MIXTURE PYROLYSE COPPER SALT COPPER OXIDE CARBON

DERWENT-CLASS: A85 L03 X16

CPI-CODES: A12-E06; L03-E01B;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0210 0231 0947 1995 1996 2198 2200 2201 2541 2682 2739

Multipunch Codes: 011 04- 062 064 087 23& 231 236 359 393 60- 609 623 627 688 726